

FIG. 1A

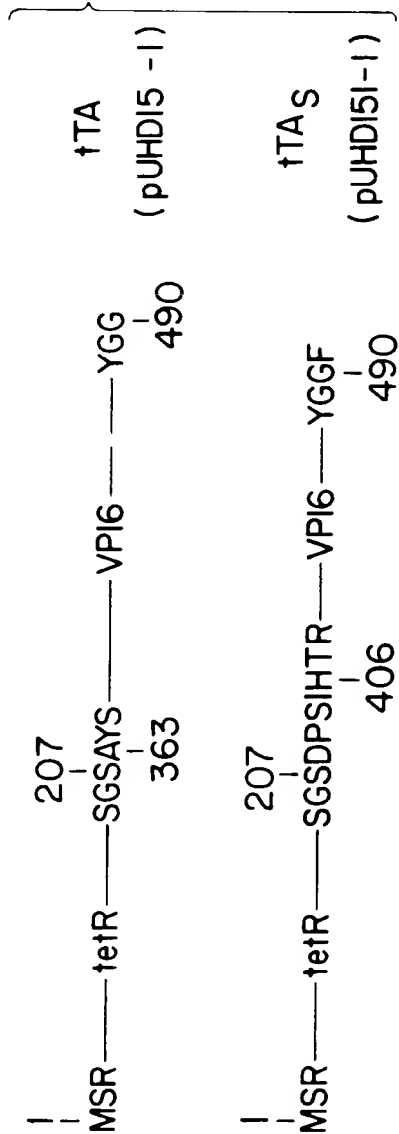
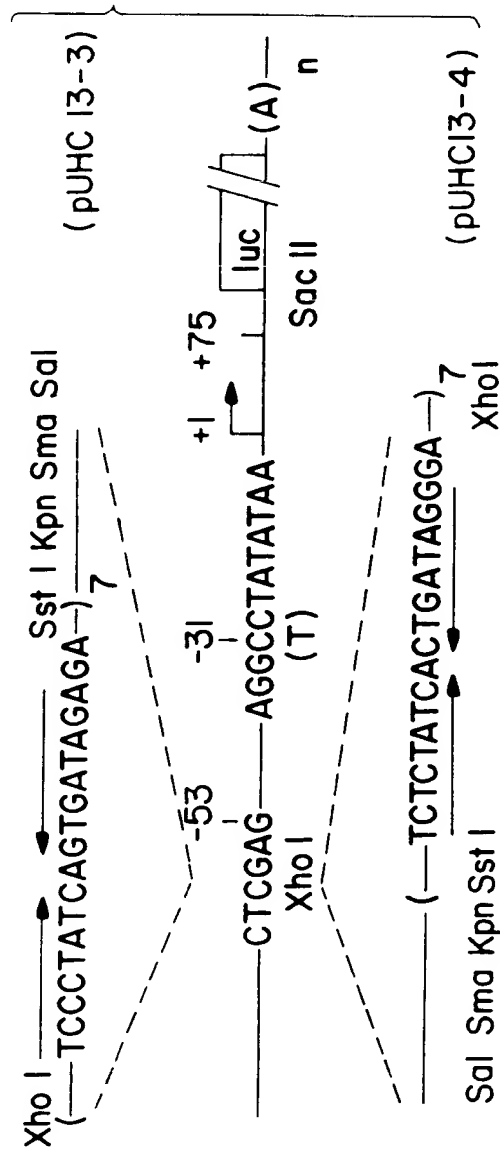


FIG. 1B



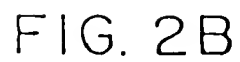
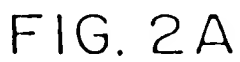


FIG. 3A

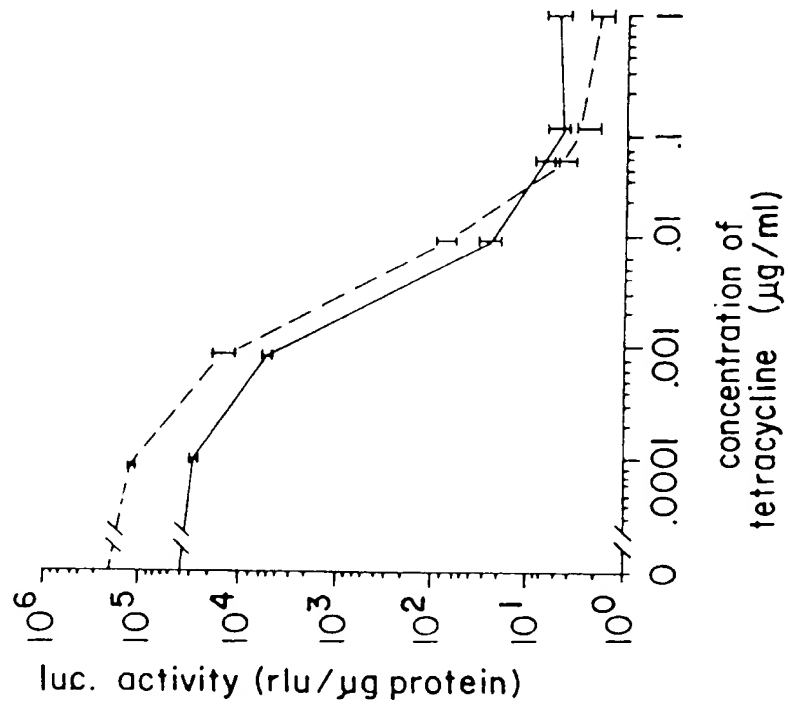
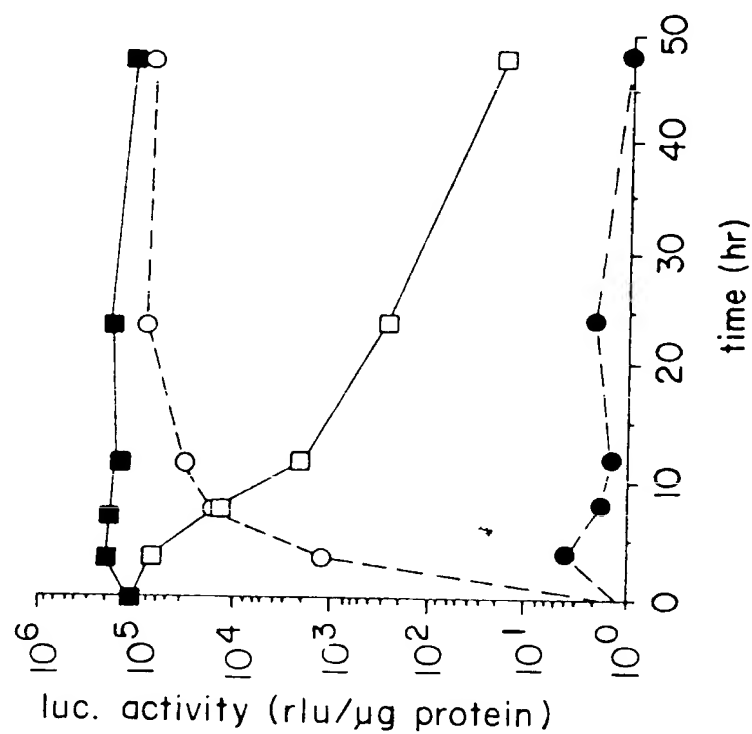


FIG. 3B



ATG TCT AGA TTA GAT AAA AGT AAA GTG ATT AAC AGC GCA TTA GAG CTG CTT AAT
Met Ser Arg Leu Asp Lys Ser Lys Val Ile Asn Ser Ala Leu Glu Leu Asn

GAG GTC GGA ATC GAA GGT TTA ACA ACC CGT AAA CTC GCC CAG AAG CTA GGT GTA
Glu Val Gly Ile Glu Gly Thr Thr Arg Lys Leu Ala Gln Lys Leu Gly Val

GAG CAG CCT ACA TTG TAT TGG CAT GTA AAA AAT AAG CGG GCT TTG CTC GAC GCC
Glu Gln Pro Thr Leu Tyr Trp His Val Lys Asn Lys Arg Ala Leu Asp Ala

TTA GCC ATT GAG ATG TTA GAT AGG CAC CAT ACT CAC TTT TGC CCT TTA GAA GGG
Leu Ala Ile Glu Met Leu Asp Arg His His Thr His Phe Cys Pro Leu Glu Gly

GAA AGC TGG CAA GAT TTT TTA CGT AAT AAG GCT AAA AGT TTT AGA TGT GCT TTA
Glu Ser Trp Trp Gln Asp Phe Leu Arg Asn Lys Ala Lys Ser Phe Arg Cys Ala Leu

Fig. 4A

CTA AGT CAT CGC GAT GGA GCA AAA GTA CAT TTA GGT ACA CGG CCT ACA GAA AAA
 Leu Ser His Arg Asp Gly Ala Lys Val His Leu Gly Thr Arg Pro Thr Glu Lys

CAG TAT GAA ACT CTC GAA AAT CAA TTA GCC TTT TTA TGC CAA CAA GGT TTT TCA
 Gln Tyr Glu Thr Leu Glu Asn Gln Leu Ala Phe Leu Cys Gln Gln Gly Phe Ser

CTA GAG AAT GCA TTA TAT GCA CTC AGC GCT GTG GGG CAT TTT ACT TTA GGT TGC
 Leu Glu Asn Ala Leu Tyr Ala Leu Ser Ala Val Gly His Phe Thr Leu Gly Cys

GTA TTG GAA GAT CAA GAG CAT CAA GTC GCT AAA GAA GAA AGG GAA ACA CCT ACT
 Val Leu Glu Asp Gln Glu His Gln Val Ala Lys Glu Glu Arg Glu Thr Pro Thr

ACT GAT AGT ATG CCG CCA TTA TTA CGA CAA GCT ATC GAA TTA TTT GAT CAC CAA
 Thr Asp Ser Met Pro Pro Leu Leu Arg Gln Ala Ile Glu Leu Phe Asp His Gln

Fig. 4B

GGT GCA GAG CCA GCC TTC TTA TTC GGC CTT GAA TTG ATC ATA TGC GGA TTA GAA
Gly Ala Glu Pro Ala Phe Leu Phe Gly Leu Glu Ile Ile Cys Gly Leu Glu

AAA CAA CTT AAA TGT GAA AGT GGG TCC GCG TAC AGC CGC GCG CGT ACG AAA AAC
Lys Gln Leu Lys Cys Glu Ser Glu Ser Ala Tyr Ser Arg Ala Arg Thr Lys Asn

AAT TAC GGG TCT ACC ATC GAG GGC CTG CTC GAT CTC CCG GAC GAC GCC CCC
Asn Tyr Gly Ser Thr Ile Glu Gly Leu Leu Asp Leu Pro Asp Asp Ala Pro

GAA GAG GCG GGG CTG GCG GCT CCG CGC CTG TCC TTT CTC CCC GCG GGA CAC ACG
Glu Glu Ala Gly Leu Ala Ala Pro Arg Leu Ser Phe Leu Pro Ala Gly His Thr

CGC AGA CTG TCG ACG GCC CCC CCG ACC GAT GTC AGC CTG GGG GAC GAG CTC CAC
Arg Arg Leu Ser Thr Ala Pro Pro Thr Asp Val Ser Leu Gly Asp Glu Leu His

Fig. 4C

TTA GAC GGC GAG GAC GTG GCG ATG GCG CAT GCC GAC GCG CTA GAC GAT TTC GAT
Leu Asp Gly Glu Asp Val Ala Met Ala His Ala Asp Ala Leu Asp Asp Phe Asp

CTG GAC ATG TTG GGG GAC GGG GAT TCC CCG GGT CCG GGA TTT ACC CCC CAC GAC
Leu Asp Met Leu Gly Asp Gly Asp Ser Pro Gly Pro Gly Phe Thr Pro His Asp

TCC GCC CCC TAC GGC GCT CTG GAT ATG GCC GAC TTC GAG TTT GAG ATG TTT
Ser Ala Pro Tyr Gly Ala Leu Asp Met Ala Asp Phe Glu Phe Glu Met Phe

ACC GAT CCC CTT GGA ATT GAC GAG TAC GGT GGG TAG
Thr Asp Pro Leu Gly Ile Asp Glu Tyr Gly Gly *

Fig. 4D

ATG TCT AGA TTA GAT AAA AGT AAA GTG ATT AAC AGC GCA TTA GAG CTG CTT AAT
Met Ser Arg Leu Asp Lys Ser Lys Val Ile Asn Ser Ala Leu Glu Leu Asn

GAG GTC GGA ATC GAA GGT TTA ACA ACC CGT AAA CTC GCC CAG AAG CTA GGT GTA
Glu Val Gly Ile Glu Gly Leu Thr Thr Arg Lys Leu Ala Gln Lys Leu Gly Val

GAG CAG CCT ACA TTG TAT TGG CAT GTA AAA AAT AAG CGG GCT TTG CTC GAC GCC
Glu Gln Pro Thr Leu Tyr Trp His Val Lys Asn Lys Arg Ala Leu Asp Ala

TTA GCC ATT GAG ATG TTA GAT AGG CAC CAT ACT CAC TTT TGC CCT TTA GAA GGG
Leu Ala Ile Clu Met Leu Asp Arg His His Thr His Phe Cys Pro Leu Glu Gly

GAA AGC TGG CAA GAT TTT TTA CGT AAT AAC GCT AAA AGT TTT AGA TGT GCT TTA
Glu Ser Trp Trp Gln Asp Phe Leu Arg Asn Asn Ala Lys Ser Phe Arg Cys Ala Leu

Fig. 5A

CTA AGT CAT CGC GAT GGA GCA AAA GTA CAT TTA GGT ACA CGG CCT ACA GAA AAA
Leu Ser His Arg Asp Gly Ala Lys Val His Leu Gly Thr Arg Pro Thr Glu Lys

CAG TAT GAA ACT CTC GAA AAT CAA TTA GCC TTT TTA TGC CAA CAA GGT TTT TCA
Gln Tyr Glu Thr Leu Glu Asn Gln Leu Ala Phe Leu Cys Gln Gln Gly Phe Ser

CTA GAG AAT GCA TTA TAT GCA CTC AGC GCT GTG GGG CAT TTT ACT TTA GGT TGC
Leu Glu Asn Ala Leu Tyr Ala Leu Ser Ala Val Gly His Phe Thr Leu Gly Cys

GTA TTG GAA GAT CAA GAG CAT CAA GTC GCT AAA GAA GAA AGG GAA ACA CCT ACT
Val Leu Glu Asp Gln Glu His Gln Val Ala Lys Glu Glu Arg Glu Thr Pro Thr

ACT GAT AGT ATG CCG CCA TTA TTA CGA CAA GCT ATC GAA TTA TTT GAT CAC CAA
Thr Asp Ser Met Pro Pro Leu Leu Arg Gln Ala Ile Glu Leu Phe Asp His Gln

Fig. 5B

GGT GCA GAG CCA GCC TTC TTA TTC GGC CTT GAA TTG ATC ATA TGC GGA TTA GAA
Gly Ala Glu Pro Ala Phe Leu Phe Gly Leu Glu Leu Ile Ile Cys Gly Leu Glu

AAA	CAA	CTT	AAA	TGT	GAA	AGT	GGG	TCT	GAT	CCA	TCG	ATA	CAC	ACG	CGC	AGA	CTG
Lys	Gln	Leu	Lys	Cys	Glu	Ser	Gly	Ser	Asp	Pro	Ser	Ile	His	Thr	Arg	Arg	Leu

TCG ACG GCC CCC CCG ACC GAT GTC AGC CTG GGG GAC GAG CTC CAC TTA GAC GGC
Ser Thr Ala Pro Pro Thr Asp Val Ser Leu Gly Asp Glu Leu His Leu Asp Gly

GAG GAC GTG GCG ATG GCG CAT GCC GAC GCG CTA GAC GAT TTC GAT CTG GAC ATG
Glu Asp Val Ala Met Ala His Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met

TTG GGG GAC GGG GAT TCC CCG GGT CCG GGA TTT ACC CCC GAC TCC GCC CCC
Leu Gly Asp Gly Asp Ser Pro Gly Pro Gly Phe Thr Pro His Asp Ser Ala Pro

Fig. 5C

TAC GGC GCT CTG GAT ATG GCC GAC TTC GAG TTT GAG CAG ATG TTT ACC GAT GCC
Tyr Gly Ala Leu Asp Met Ala Asp Phe Glu Phe Glu Gln Met Phe Thr Asp Ala

CTT GGA ATT GAC GAG TAC GGT GGG TTC TAG
Leu Gly Ile Asp Glu Tyr Gly Gly Phe *

Fig 5D

GAATTCTCGAGTTTACCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCCTC
CCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCCTATCAGTGATAGAGAAAAGT
GAAAGTCGAGTTTACCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCCTCCC
TATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCCTATCAGTGATAGAGAAAAGTGA
AAGTCGAGTTTACCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGCTCGGTACCCGGGT
CGAGTAGGCGTGTA CGGTGGAGGCC TATATAAGCAGAGCTCGTT TAGTGAACCGTCAGATCGC
CTGGAGCGCCATCCACGCTGTTTTTGACCTCCATAGAAGACACCGGACCGATCCAGCCTCCGC
GG

Fig. 6

GAATTCCCTCGACCCGGGTACCGAGCTCGACTTTTCACTTTTCTCTATCACTGATAGGAGTGGTA
AACTCGAC TTTCACTTTTCTCTATCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTTCTCT
ATCACTGATAGGAGTGGTAAACTCGACTTTTCACTTTTCTCTATCACTGATAGGAGTGGTAAA
CTCGACTTTCACCTTTTCTCTATCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTTCTCTAT
CACTGATAGGAGTGGTAAACTCGACTTTTCACTTTTCTCTATCACTGATAGGAGTGGTAAACT
CGAGTAGGCGGTGTACGGTGGGAGGCCCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGC
CTGGAGACGCCCATCCACGCTGTTTGTGACCTCCATAGAAGACACCCGGACCGATCCAGCCTCCGC
GG

Fig. 7

GAGCTCGACTTTCACCTTTTCTCTATCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTTCTC
TATCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTTCTCTATCACTGATAGGAGTGGTAA
ACTCGACTTTCACCTTTTCTCTATCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTTCTCTA
TCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTTCTCTATCACTGATAGGAGTGGTAAAC
TCGACTTTCACCTTTTCTCTATCACTGATAGGAGTGGTAAACTCGAGATCCGGCGAATTTCGAAC
ACGCAGATGCAGTCGGGGCGCGGTCCGAGGTCCACTTCGCATATTAAAGGTGACGCCGTGTGG
CCTCGAACACCGAG

Fig. 8

CTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATC
AGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGT
CGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAG
TGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCG
AGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGCTCGGTACCCGGGTCGAGTA
GGCGGTACGGTGGGAGGCCCTATATAAGCAGAGCTCGTTTAGTGAAACCGTCAGATCGCCTGGAG
ACGCCATCCACGCTGTTTTGACCTCCATAGAAAGACACCGGGACCGATCCAGCCCTCCGCGGCCCC
GAATTCGAGCTCGGTACCGGGCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCGAAT
TCCAGGAGGTGGAGATCCGCGGGTCCAGGCCAAACCCACACCCATTTTCTCCTCCTCTGCCCC
TATATCCCGGCACCCCTCCTCCTAGCCCTTTTCCCTCCTCCCGAGAGACGGGGGAGGAGAAAAG
GGGAGTT'AGGTCGACATGACTGAGCTGAAGGCAAAGGAACCTCGGGCTCCCCACGTGGCGGGC
GGCGGCCCTCCCCACCGAGGTCGGATCCCAGCTCCTGGGTGCGCCCGGACCCCTGGCCCCCTTCC
AGGGGAGCCAGACCTCAGAGGCCCTCGTCTGTAGTCTCCGCCCATCCCCATCTCCCTGGACGGGTT

Fig. 9A

GCTCTTCCCCGGCCCTGT CAGGGGCAGAACCCCCAGACGGGAGACGCAGGACCCACCGTCG
TTGTCAGACGTGGAGGGCGCATTTCTTGGAGTCGAAGCCCCGAGGGGCAGGAGACAGCAGCT
CGAGACCTCCAGAAAAGACAGCGGCCCTGCTGGACAGTGTCTCTGACACGCTCCTGGCGCCCTC
GGGTCCCCGGGCAGAGCCACGCCAGCCCTGCCACCTGGAGGCCATCAGCCCCGTGCTGTGTTT
GGCCCCGACCTTCCCCGAAGACCCCCGGGCTGCCCCCGCTACCAAAGGGTGTGGCCCCCGCTCA
TGAGCCGACCCGAGGACAAGGCAGGCGACAGCTCTGGGACGGCAGCGGCCACAAGGTGCTGCC
CAGGGGACTGTACCATCCAGGCAGCTGTGCTCCCCCTCTCTGGGAGCCCTCACTGGCCGGCA
GTGAAGCCATCCCCGCAGCCCGCTGCGGTGCAGGTAGACGAGGAGACAGCTCCGAATCCGAGG
GCACCGTGGGCCCGCTCCTGAAGGGCCAACTCGGGCACTGGGAGGCACGGCGGCCCGGAGGAGG
AGCTGCCCCCGTCTGCGTCTGGAGCGGCCGCAGGAGCGTCGCCCTTGTCCTCCCAAGGAAGATTCT
CGCTTCTCGGCGCCAGGGTCTCCTTGGCGGAGCAGGACGCGCCGCTGGCGCCTGGGGCGCTCCC
CGCTGGCCACCTCGGTGGTGATTTCATCCACGTGCCCCATCCTGCCTCTCAACCACGCTTTCTCT
GGCACCCGCAACAGGCAGCTGTGAGGGGAGAGCTACGACGGCGGGCGCGCGGCCGCCAGC

Fig. 9B

CCCTTCG, CCCGCAGCGGGCTCCCCCTCTGCCTCGTCCACCCCTGTGGGGCGGACTTCC
CCGACTGCACCTACCCGCCCGACGCCGAGCCCAAAGATGACGGTTCCCCCTCTACGGCGACTT
CCAGCCGCCGCCCTCAAGATAAAGGAGGAGGAAGCCCGGAGGCCGCGCGCTCCCCCG
CGTACGTACCTGGTGGCTGGTGCAAAACCCGCCGCTTCCCGGACTTCCAGCTGGCAGCGCCGC
CGCCACCCTCGCTGCCGCCCTCGAGTGCCCTCGTCCAGACCCGGGAAGCGGGTGGCGGCCTC
CCCAGGCAGTGCCCTCCGTCTCCTCCTCGTCCGCGGTGACCCCTGGAGTGCACTCCTGTAC
AAGGCAGAAAGCGCGCGCCCGCCAGCAGGGCCCCCTTCGCGCCGCTGCCCTGCAAGCCTCCGGGCG
CCGGCGCCTGCCTGCTCCCGCGGACGGCCTGCCCTCCACCTCCGCCCTCGGGCGCAGCCGCCGG
GGCCGCCCTGCGCTCTACCCGACGCTCGGCCTCAACGGACTCCCGCAACTCGGCTACCAGGCC
GCCGTGCTCAAGAGGGCCTGCCGCAGGTCTACACGCCCTATCTCAACTACCTGAGCCGGATT
CAGAACCCAGTCAGAGCCACAGTACAGCTTCGAGTCACTACCTCAGAAAGATTGTTGATCTG
TGGGGATGAAGCATCAGGCTGTATTATGGTGTCCTCACCTGTGGAGCTGTAAGTCTTCTTT
AAAAGGCAATGGAAGGCAGCATAACTATTTATGTGCTGGAAGAAATGACTGCATTGTTGATA

Fig. 9C

AAATCCGCAGGAAAAAAGTCCCCGGGTGTGCGCCTTAGAAAAGTGTGTCAAGCTGGCATGGTCCT
TGGAGGGCGAAAGTTTAAAAAGTTCAATAAAGTCAGAGTCATGAGAGCACTCGATGCTGTGTGCT
CTCCCACAGCCAGTGGGCATTCCAAATGAAAGCCAAACGAATCACTTTTCTCCAAGTCAAGAGA
TACAGTTAATTCCCCCTCTAATCAACCTGTTAATGAGCATTTGAACCAGATGTGATCTATGCAGG
ACATGACAAACACAAAGCCTGATACCTCCAGTTCTTTGCTGACGAGTCTTAATCAACTAGGCGAG
CGGCAACTTTTTCAGTGGTAAAAATGGTCCAAATCTCTCCAGGTTTTCGAAACTTACATATTG
ATGACCAGATAACTCTCATCCAGTATTCTTGGATGAGTTTAATGGTATTTGGACTAGGATGGAG
ATCCTACAAACATGTCAGTGGGCAGATGCTGTATTTTGCACCTGATCTAATATTAAATGAACAG
CGGATGAAAGAAATCATCATTTCTATTCACTATGCCCTTACCATGTGGCAGATACCGCAGGAGTTTG
TCAAGCTTCAAGTTAGCCAAGAAGAGTTCCTCTGCAATGAAAAGTATTACTACTTCTTAATACAAT
TCCTTTGGAAGGACTAAGAAAGTCAAAGCCAGTTTGAAGAGATGAGATCAAGCTACATTAGAGAG
CTCATCAAGGCAATTGGTTTGAGGCAAAAAGGAGTTGTTTCCAGCTCACAGCGTTTCTATCAGC
TCACAAAACTTCTTGATAACTTGCATGATCTTGTCAAACAACCTTCACTGTACTGCCCTGAATAC

Fig. 9D

ATTATCCAGTCCGGCGCTGAGTGTGAATTTCCAGAAATGATGCTGAAGTTATTGCTGCA
CAGTTACCCAGATATTGGCAGGGATGGTGAAACCACCTTCTCTTTTCATAAAAAGTGAATGTCAA
TTATTTTCAAAGAAATTAAGTGTGTGGTATGTCTTTTCGTTTTGGTCAGGATTATGACGTCTCG
AGTTTTTATAATATTCTGAAAGGGAATTCCTGCAGCCCCGGGGATCCACTAGTTCTAGAGGATC
CAGACATGATAAGATACATTGATGAGTTTGGACAAACCACAACCTAGAAATGCAGTGAAAAAATG
CTTTATTTGTGAAATTTGTGATGCTATTGCTTTTATTGTAAACCATATAAGCTGCAATAAACAA
GTTAACAAACAATTGCATTTCATTTTATGTTTCAGGTTCAGGGGAGGTGTGGAGGTTTTTT
AAAGCAAGTAAACCCTCTACAAATGTGGTATGGCTGATTATGATCCTGCAAGCCTCGTCTCTG
GCCGGACCACGCTATCTGTGCAAGTCCCCGACGCGCTCCATGAGCAGAGCGCCCCGCCGCC
GAGGCAAGACTCGGGCGGCGCCCTGCCCGTCCCACCAAGTCAACAGGCGGTAAACGGCCTCTTC
ATCGGGAATGCGCGGACCTTCAGCATCGCCGGCATGTCCCCCTGGCGGACGGGAAGTATCAGCT
CGACCAAGCTTGGCGAGATTTTCAGGAGCTAAGGAAGCTAAAAATGGAGAAAAAATCACTGGAT
ATACCACGTTGATATATCCCAATGGCATCGTAAAGAACAATTTTGAGGCATTTTCAGTCAGTTGC

Fig. 9E

TCAATGTACCTATAACCAGACCGTTCAGCTGCATTAAATGAATCGGCCAACGCCGGGAGAGGC
GGTTTGGGTATTGGGCGCTCTTCCGCTTCCCTCGCTCACTGACTCGCTGCGCTCGGTCTGGTTCGGC
TGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAAATCAGGGGATAA
CGCAGGAAAGAACATGTGAGCAAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCTTG
CTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCAAAAAATCGACGCTCAAGTCAGA
GGTGGGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAAGCTCCCTCGTGCG
CTCTCCCTGTTCCGACCCCTGCCGCTTACCGGATACCTGTCCGCTTCTCCCTTCGGGAAGCGTG
GCGCTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGTCTGTTGCTCCAAGCTGG
GCTGTGTGCAGAACCCCGTTTCAGCCCCGACCGCTGCGCTTATCCGGTAACTATCGTCTTGA
GTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAAACAGGATTAGCAGA
GCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAA
GGACAGTATTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTC
TTGATCCGGCAAAACACCCTGGTAGCGGTGTTTTTTTGTGTGCAAGCAGCAGATTACG

Fig. 9F

CGCAGAAAAAAGGATCTCAAGAAGATCCTTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGA
ACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCT
TTTAAATTAAAAATGAAGTTTAAATCAATCTAAAGTATATAGTAAACTTGGTCTGACAGT
TACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCAATCCATAGTTG
CCTGACTCCCCGTCGTGTAGATAAATAAGATACGGAGGGCTTACCATCTGGCCCCAGTGCTGC
AATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTATCAGCAATAAAACCAGCCAGCCGGA
AGGGCCGAGCGCAGAAGTGGTCTGCAACTTTATCCGCCCTCCATCCAGTCTATTAAATTGTTGCC
GGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGGCAACGTTGTGGCATTGGCTACAGG
CATCGTGGTGTCAGCTCGTCGTTTGGTATGGCTTCATTCAGCTCCGGTTCCTCCAAACGATCAAGG
CGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTAGCTCCTTCGGTCTCCGATCGTTG
TCAGAAAGTAAGTTGGCCGAGTGTTATCACTCATGGTTATGGCAGCACTGCATAAATTCTCTTAC
TGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAA
TAGTGATGCGCGACCGAGTTGCTCTTTGCCCGCGTCAATACGGGATAATAACCGGCCACATA

Fig. 9G

GCAGAACTTTAAAGTGCTCATCATTTGGAAAACGTTCTTCGGGCGGAAACTCTCAAGGATCTT
ACCGCTGTTGAGATCCAGTTCGATGTAAACCCACTCGTGCAACCCAACTGATCTTCAGCATCTTTT
ACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGCAAAATGCCGCAAAAAGGAATAA
GGCGGACACGGGAAATGTTGAATACTCATACTCTTCCTTTTCAATATTATTGAAGCATTTATCA
GGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTT
CCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACATTAA
CCTATAAAATAGCGGTATCACGAGGCCCTTTCGTC

Fig. 9H

CTCGAGTTTACCACTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACTCCCTATC
AGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACTCCCTATCAGTGATAGAGAAAAGTGAAAGT
CGAGTTTACCACTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACTCCCTATCAG
TGATAGAGAAAAGTGAAAGTCGAGTTTACCACTCCCTATCAGTGATAGAGAAAAGTGAAAGTCG
AGTTTACCACTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTCGGTACCCGGGTCGAGTA
GGCGTGACGGTGGAGGCCCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAG
ACGCCATCCACGCTGTTTGGACCTCCATAGAAGACACGGGACCGATCCAGCCTCCGCGGCCCC
GAATTCCGCCCACGACCATGACCATGACCCCTCCACACCAAAGCATCTGGGATGGCCCTACTGCA
TCAGATCCAAGGAACGAGCTGGAGCCCCCTGAACCGTCCGCAGCTCAAGATCCCCCCTGGAGCGG
CCCCGGGCGAGGTGTACCTGGACAGCAGCAAGCCCGCGGTGTACAACTACCCCGAGGGCGCG
CCTACGAGTTCAACGCCCGCGGCCGCCCAACGGCAGGTCTACGGTCAGACCGGCCCTCCCCCTA
CGGCCCCGGGTCTGAGGCTGCGGCGTTTCGGCTCCAACGGCCCTGGGGGGTTTCCCCCACTCAAC
AGCGTGTCTCCGAGCCCGCTGATGCTACTGCACCCGCCCGCAGCTGTGCGCTTTCCTGCAGC

Fig. 10A

CCCACGGCCAGCAGGTGCCCTACTACCTGGAGAACGAGCCCAGCGGCTACACGGTGGCGGAGGC
CGGCCCGCGGCATTCTACAGGCCAAATTAGATAATCGACGCCAGGGTGGCAGAGAAAGATTG
GCCAGTACCAATGACAAGGGAAGTATGGCTATGGAATCTGCCAAGGAGACTCGCTACTGTGCAG
TGTGCAATGACTATGCTTCAGGCTACCATTTATGGAGTCTGGTCCTGTGAGGGCTGCAAGGCCTT
CTTCAAGAGAAGTATTC AAGGACATAACGACTATATGTGTCCAGCCACCAGTGCAACCATT
GATAAAAACAGGAGGAAGAGCTGCCAGGCCTGCCGGCTCCGCCAAATGCTACGAAGTGGGAATGA
TGAAAGGTGGGATACGAAAAGACCGAAGAGGAGGGAGAATGTTGAAACACAAGCGCCAGAGAGA
TGATGGGGAGGGCAGGGGTGAAGTGGGGTCTGCTGGAGACATGAGAGCTGCCAACCTTTGGCCA
AGCCCGCTCATGATCAAACGCTCTAAGAAAGAACAGCCTGGCCTTGTCCCTGACGGCCGACCAGA
TGGTCATGGCCTTGTTGGATGCTGAGCCCCCATACTCTATTCCGAGTATGATCCTACCAGACC
CTTCAGTGAAGCTTCGATGATGGGCTTACTGACCAACCTGGCAGACAGGAGCTGGTTCACATG
ATCAACTGGGCCAAGAGGGTGCCAGGCTTTGTGATTTGACCCCTCCATGATCAGGTCCACCTTC
TAGAATGTGCCTGGCTAGAGATCCTGATGATTTGTTCTGCTGTGGCGCTCCATGGAGCACCCAGT

Fig. 10B

GAAGCTACTGTTTGCTCCTAACTTGCTCTTGGACAGGAACCAAGGAAAAATGTGTAGAGGGCATG
GTGGAGATCTTCGACATGCTGCTGGCTACATCATCTCGGTTCCGCATGATGAATCTGCAGGGAG
AGGAGTTTGTGTGCCCTCAAATCTATTATTTTGCTTAATTCTGGAGTGTAACATTTCTGTCCAG
CACCCCTGAAGTCTCTGGAAGAGAGGACCATATCCACCGAGTCCTGGACAAGATCACAGACACT
TTGATCCACCTGATGGCCAAAGGCAGGCCCTGACCCCTGCAGCAGCAGCACCGCGGCTGGCCCCAGC
TCCTCCTCATCCTCTCCACATCAGGCACATGAGTAACAAGGCATGGAGCATCTGTACAGCAT
GAAGTGCAAGAACGTGTGCCCCCTCTATGACCTGCTGCTGGAGATGCTGGACGCCCCACCGCCTA
CATGGCCCCACTAGCCGTGGAGGGGCATCCGTGGAGGAGACGGACCAAGCCACTTGGCCACTG
CGGGCTCTACTTCATCGCATTCCTTGCAAAAAGTATTACATCACGGGGGAGGCAGAGGGTTTCCC
TGCCACAGTCTGAGAGCTCCCTGGCGGAATTCGAGCTCGGTACCCGGGGATCCCTCTAGAGGATC
CAGACATGATAAGATACATTGATGAGTTTGGACAAACCACAACTAGAAATGCAGTGAAAAAAATG
CTTTATTGTGAAATTTGTGATGCTATTGCTTTATTATTGTAAACCATTATAAGCTGCAATAAACAA
GTTAACAAACAATTGCATTTCATTTTATGTTTCAGGTTTCAGGGGGAGGTGTGGAGGTTT

Fig. 10C

AAAGCAAGTAAACCTCTACAAATGTGGTATGGCTGATTATGATCCTGCAAGCCTCGTCTGTG
GCCGGACCAAGCTATCTGTGCAAGGTCCCCGACGCGCGCTCCATGAGCAGAGCGCCCCGCCGCC
GAGGCAAGACTCGGGCGGGCCCTGCCCCGTCCCACCAAGTCAACAGGCGGTAACCGGCCCTCTTC
ATCGGGAATGCGCGCGACCTTCAGCATCGCCGGCATGTCCCCTGGCGGACGGGAAGTATCAGCT
CGACCAAGCTTGGCGAGATTTTCAGGAGCTAAGGAAGCTAAATGGAGAAAAAATCACTGGAT
ATACCACCGTTGATATATCCCAATGGCATCGTAAGAACAATTTGAGGCATTTTCAGTCAGTTGC
TCAATGTACCTATAACAGACCGTTCAGCTGCATTAATGAATCGGCCAACGCGGGGAGAGGC
GGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCCGC
TGCGGCGAGCGTATCAGCTCACTCAAAGCGGTAATACGGTTATCCACAGAATCAGGGGATAA
CGCAGGAAGAACAATGTAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAAGGCCCGTTG
CTGGCGT. TTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGA
GGTGCGAAACCCGACAGGACTATAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCCCTCGTGCG
CTCTCCTGTTCCGACCCCTGCCGCTTACCGGATACCTGTCCGCTTTCTCCCTTCGGGAAGCGTG

Fig. 10D

GGCCTTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGTTCGTTGCTCCAAGCTGG
GCTGTGTGCACGAACCCCCCGTTCAGCCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGA
GTCCAAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGTGTAACAGGATTAGCAGA
GGGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGIGGCCCTAACTACGGCTACACTAGAA
GGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTC
TTGATCCC GCAAAACAAACCCGCTGGTAGCGGTGTTTTTTTTTGTTCGAAGCAGCAGATTACG
CGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGA
ACGAAAACTCACGTTAAGGATTTTGGTCATGAGATTATCAAAAAAGGATCTTCACCTAGATCCT
TTTAAATTAAAAATGAAGTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGT
TACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTCCATCCATAGTTG
CCTGATCCCCGTCGTGTAGATAACTACGATAACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCA
ATGATACCGGAGACCCACGCTCACCCGGCTCCAGATTTATCAGCAATAAACAGCCAGCCGGAA
GGCCGAGCGCAGAAGTGGTCCCTGCAACTTTTATCCGCCCTCCATCCAGTCTATTAAATTGTTGCCG

Fig. 10E

GGAAGCTAGTAAGTAGTTCGCCAGTTAATAGTTTGGCAACGTTGTTGCCATTGCTACAGGC
ATCGTGGTGTCAAGCTCGTCGTTTGGTATGGCTTCATTACAGCTCCGGTTCCCAACGATCAAGGC
GAGTTACATGATCCCCCAATGTTGTGCAAAAAGCGGTAGCTCCTTCGGTCTCCCGATCGTTGT
CAGAAAGTAAGTTGGCCGCGAGTGTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACT
GTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAAAT
AGTGTATGGGGCGACCGAGTTGCTCTTGCCCGCGGTCAATACGGGATAATACCGCGCCACATAG
CAGAACTTTAAAAGTGCTCATCATTTGGAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTA
CCGCTGTTGAGATCCAGTTCGATGTAAACCACTCGTGCACCCAACTGATCTTCAGCATCTTTTA
CTTTCACCAAGCGTTTCTGGGTGAGCAAAAAACAGGAAGGC AAAATGCCGCAAAAAAGGGAATAAG
GGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTCAATATTTATGAAGCATTTATCAG
GGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGTTC
CGGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTTATCATGACATTAAC
CTATAAAAATAGGCGTATCACGAGGCCCTTTTCGTC

Fig. 10F

FIG. 11

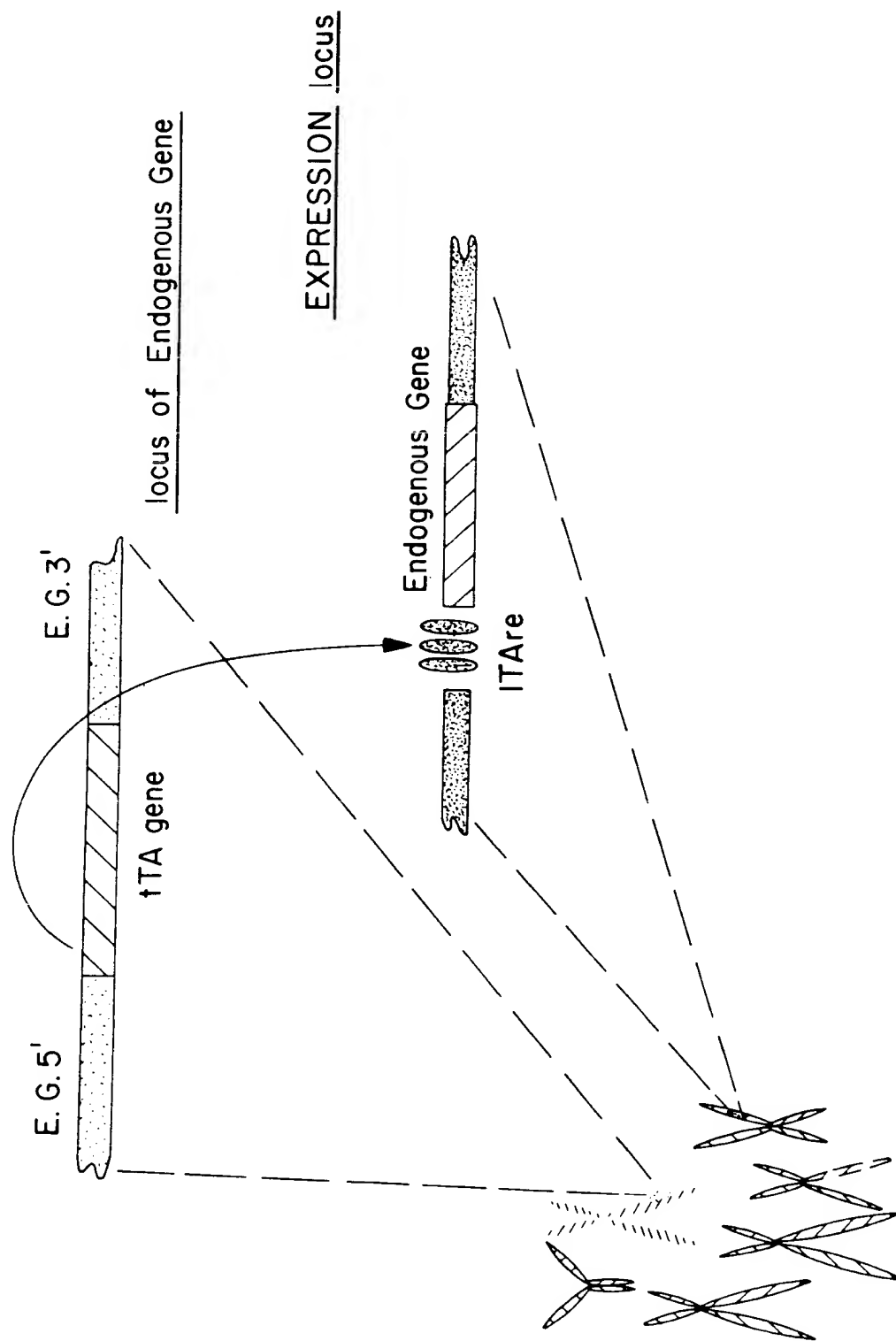


FIG. 12

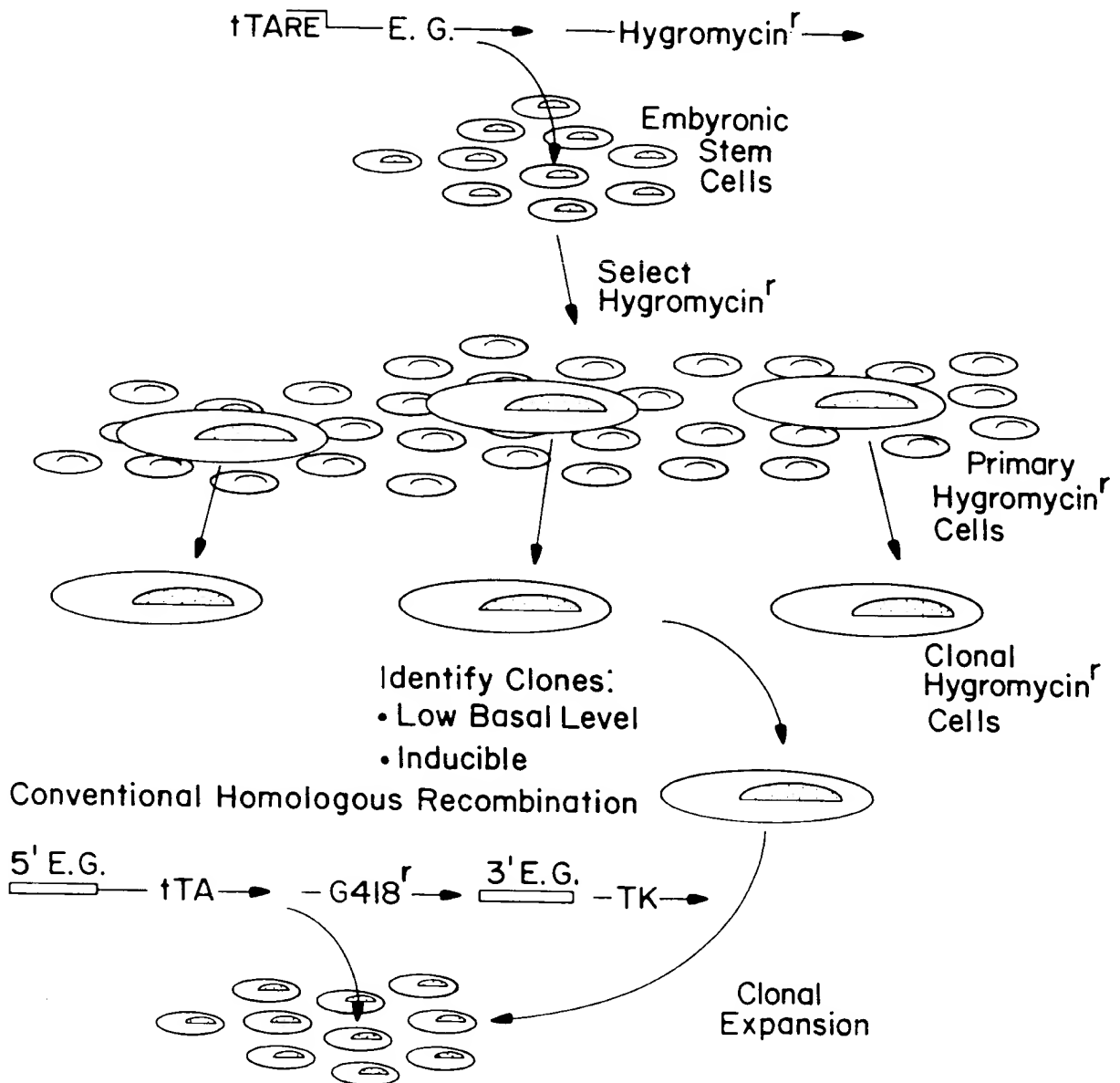


FIG. 13A

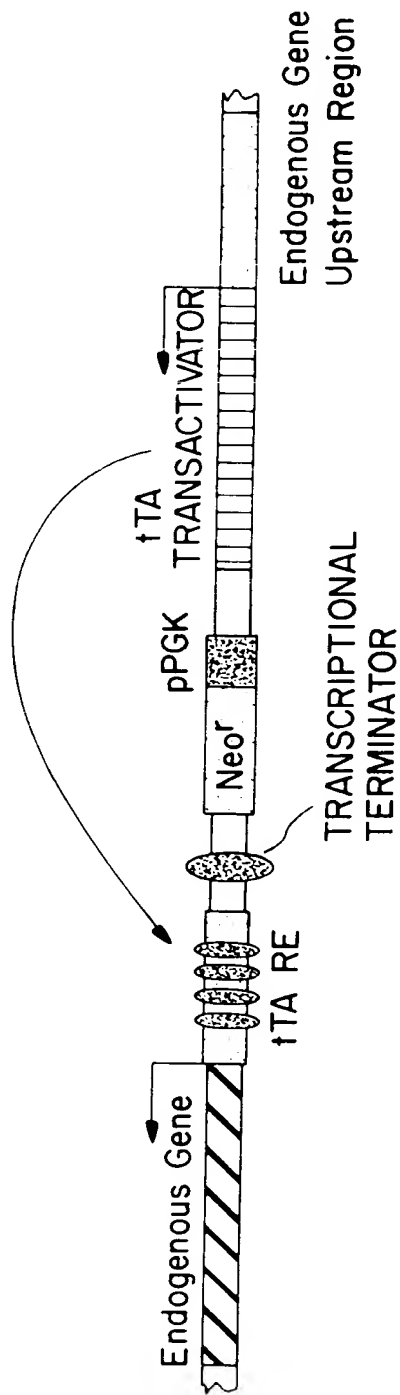


FIG. 13B

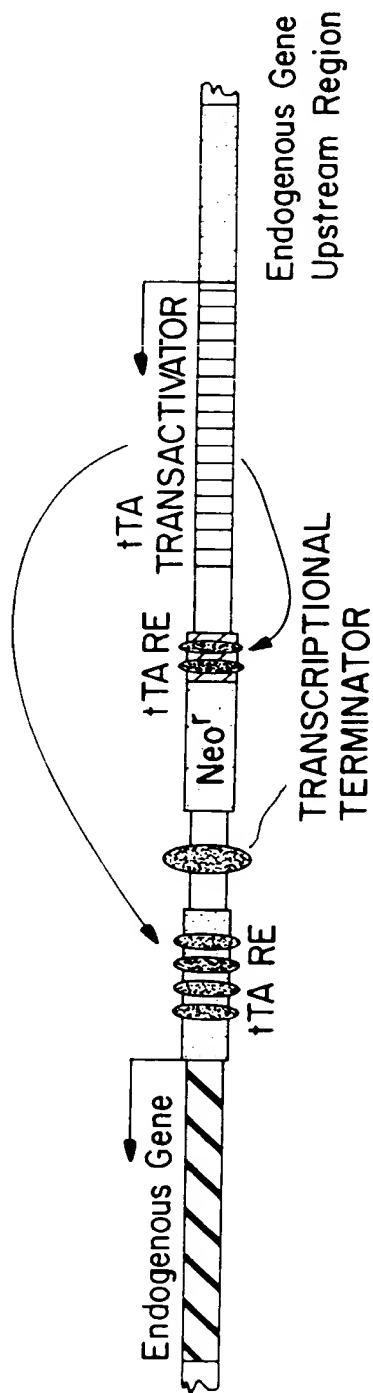


FIG.14

